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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/709,811	05/28/2004	John S. Austin	BUR920040136US1	3810	
30449	7590 08/23/2005		EXAMI	EXAMINER	
SCHMEISER, OLSEN + WATTS 3 LEAR JET LANE			CHANG, J	CHANG, JOSEPH	
SUITE 201	LANE		ART UNIT PAPER NUMBER		
LATHAM, N	LATHAM, NY 12110		2817		
			DATE MAILED: 08/23/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	$\overline{}$
		10/709,811	AUSTIN ET AL.	(AU)
	Office Action Summary	Examiner	Art Unit	
		Joseph Chang	2817	
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the	correspondence addre	ess
A SH THE   - Exter after - If the - If NO - Failu Any (	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period or the to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this commED (35 U.S.C. § 133).	nunication.
Status				
2a)□	Responsive to communication(s) filed on <u>28 M</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.		erits is
Dispositi	ion of Claims			
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-20 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/o	wn from consideration.		
Applicati	on Papers			
10)⊠	The specification is objected to by the Examine The drawing(s) filed on 28 May 2004 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	☑ accepted or b)☐ objected to drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR	• •
Priority u	ınder 35 U.S.C. § 119			
12) a)[	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority documents  2. Certified copies of the priority documents  3. Copies of the certified copies of the priority documents  application from the International Bureau  See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Sta	age
2) Notice 3) Inform Paper	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		52)

#### **DETAILED ACTION**

### Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 8-14 and 16-20 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Schorn US Patent No. 6,278,334.

Schorn discloses in Figures 1-4 an oscillator (Fig. 1) and a method comprising: first (Vdd) and second (Ground) operating voltages, delay stages (4, 6, 8, 10, 12), an inverting circuit (44, see Fig. 4), input node (IN), output node (OUT), a control circuit (46, 48, 50, 52), a first switch circuit (upper transistor of 46 and lower transistor of 48), (a first resistance adjusting circuit (lower transistor of 46 and upper transistor of 48), external control signal (Vctrl). It is noted that every elements and connection are the same as the one in this application and therefore any functional limitations recited in the claims are inherently present.

Regarding claim 6, 14, and 20, inverter 44 is inherently a CMOS inverter because of the type of transistors and its layout shown in the figure.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 7 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schorn in view of Abe et al.

As discussed above, Schorn discloses an oscillator as recited in the claims except an extrinsic capacitor coupled between the output node and ground. As would have been well known in the art, capacitors or capacitive elements between the output node and ground are present whether intrinsically or extrinsically because the capacitance is a determination factor for the delay, for example, Abe et al. shows capacitor CL in Figure 5. Further, extrinsic capacitors are beneficial to an adjustment of amount of delays. Therefore, it would have been obvious to one of ordinary skill in the

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art to place an extrinsic capacitor between the output node and ground because such a modification would have been beneficial to an adjustment of amount of delays.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nishikido discloses a ring oscillator having current control unit.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Chang whose telephone number is 571 272-1759. The examiner can normally be reached on Mon-Fri 0700-1730.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joseph Chang Patent Examiner Art Unit 2817